

RODERICK L. BREMBY, SECRETARY

KATHLEEN SEBELIUS, GOVERNOR

DEPARTMENT OF HEALTH AND ENVIRONMENT

March 7, 2006

Jerome E. Cibrik, P.G.
Union Carbide Corporation - Remediation Technology Section
P.O. Box 8361
3200/3300 Kanawha Turnpike
South Charleston, WV 25303



RE: Third Quarter 2005 Status Report, Unison Transformer Services, Inc. Site, Fairfax District, Kansas City, Kansas, Consent Order # 97-E-0036

Dear Mr. Cibrik:

The Kansas Department of Health and Environment (KDHE) has completed review of the above referenced document submitted by Union Carbide Corporation (UCC) for the Unison Transformer Services Site located at 3126 Brinkerhoff Road, Kansas City, Kansas. The status report document was prepared on behalf of UCC by CH2M Hill and was received February 2, 2006. KDHE finds the document acceptable for inclusion into the administrative file. However, KDHE does have the following technical review comments.

- 1. Please explain the significance of continued pressure in SV-PZ-05 (e.g. effects on contaminant nature and extent) and what Unison intends to do to mitigate this recurring problem.
- 2. While it is apparent that ground water contaminant concentrations have decreased by notable percentages, there still remains contamination significantly above federally established

Q:\Staff\JKCook\Unison - Union Carbide\TRC 3rd Q 2005 Status Report - KL edits.doc

MAR 0 8 2006 ARTD/RCAP Mr. J. E. Cibrik, P.E. March 7, 2006 Page 2

maximum contaminant levels (MCLs). For example, Trichloroethene (TCE) is reported in wells MW-06, MW-09 and SV-93 at 1,650, 2,000 and 1,800 micrograms per liter (ug/l) respectively. Some of the highest TCE contaminated ground water is in the vicinity of an area where UNISON is having significant difficulty maintaining vacuum in the SVE/AS (soil vapor extraction/air sparge) system – specifically SVE well SV-93. This is also true along the southeastern terminus of the property indicating possible continuing contaminant movement offsite.

The same can be noted for vinyl chloride. Vinyl chloride was detected in ground water monitoring wells MW-07 and MW-08 at 31.4 and 31.9 ug/l respectively. These contaminant concentrations are approximately 15 times the MCL.

Please identify the steps UNISON is taking or will take to mitigate this concern and insure control of contaminant migration and that additional impacts to off-site ground water resources are minimized.

3. KDHE agrees that there appears to be evidences that the injection of co-metabolite has resulted in enhanced co-metabolite bioremediation of on-site, volatile-organic based, ground water contamination. Finally, it should also be noted that the ground water contaminant concentrations both on and off site continue to exceed MCLs.

At the very least, Union Carbide must: a) demonstrate that the applied interim remedial alternative has exhausted all potential for continued benefit (i.e. continued reduction of onsite ground water contamination), b) consider and suggest optimization methods to the in place system, c) insure contaminant containment, and d) continue to aggressively pursue completion of the comprehensive investigation/corrective action study off-site characterization and mitigation requirement.

- 4. In the future, please plot all the wells listed in table 3-5 in appropriate figures (e.g. figure 3-3).
- 5. For comparison purposes, please include MCLs values in all tables that report ground water contaminant concentrations.

Mr. J. E. Cibrik, P.E. March 7, 2006 Page 3

KDHE expects written responses to these technical review comments within 30 days of receipt of this letter. The responses may require submittal of edit copies of the draft report or simply submittal of errata sheets whichever is appropriate. In the meantime, if you have comments or questions I can be reached at <a href="johncook@kdhe.state.ks.us">johncook@kdhe.state.ks.us</a> or (785) 296-8986.

Sincerely

John K. Cook, L.P.G.

Remedial Section/State Cooperative Unit Bureau of Environmental Remediation

## JKC/lmb

cc:

File: C4-105 70168 1.0

Michael B. Davis, EPA Region 7, RCAP Don Blackert, Key Environmental, Inc.

FORM A-2

## STATE OF KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

1000 SW JACKSON—SUITE 410 TOPEKA, KANSAS 66612-1367 264-27

> MICHAEL B DAVIS ENVIRONMENTAL SCIENTIST US EPA REGION 7 ARTD 901 N 5 ST KANSAS CITY KS 66101

B-HMTM3 66101 IlliallianIlliandlabiliallibiliandlabil